1903MNRAS..63..403.

equatorial. Owing to clouds only a few observations were obtained, the results of which are given in the following table:—

Sidereal Time of the Passage of the Moon's Diameter.

Observer.	Instrument.	Aperture	Duration 1L and 2L Bright.	No. of transits.	Total No. of wires.	Duration 1L Bright. 2L Eclipsed.	No. of transits.	Total No. of wires.
		in.	m s			m s		
Mr. Dyson ...	Merz Refractor.	13	2 11·11	1	7			
Mr. Hollis ...	Astrographic Guiding Telescope.	10	11·44	2	14			
Mr. Crommelin	Sheepshanks Equatorial.	6·8	11·16	8	20	2 11·18	2	10

The tabular time of transit given in the *Nautical Almanac* is $2^{m}\ 11^{s}{\cdot}19$.

The eclipsed limb was extremely faint, and not considered observable by Mr. Dyson and Mr. Hollis.

Results of Micrometric Measures of Double Stars made with the 28-inch Refractor at the Royal Observatory, Greenwich, in the year 1902.

(*Communicated by the Astronomer Royal.*)

The measures were made with a bifilar position micrometer on the 28-inch refractor, focal length 28 feet. The power generally used was 670, but when the definition permitted a power of 1120 was employed for observing very close pairs. A blue glass shade was employed to diminish the light and irradiation when bright stars were observed. The observations were made in variously coloured fields or in a dark field with illuminated wires. The initials in the last column are those of the observers, viz.—

L.	Mr. Lewis.	W. B.	Mr. Bowyer.
B.	Mr. Bryant.	H. F.	Mr. Furner.

Micrometric Observations of Double Stars at the Royal Observatory, Greenwich.

Star's Name.	R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.	Epoch 1902.	Obs.
	h m	° ′	°	″				
β 1155 ...	0 2	86 23	92·9	0·59	1	8·7 9·3	·923	L.
β 1014 ...	0 2	58 53	356·1	1·18	1	7·0 12·5	·014	L.
OΣ 2... ...	0 8	63 35	43·9	0·57	2	6·5 8·0	·466	L.
β 1027 ...	0 10	69 3	187·5	1·57	2	7·5 10·9	·469	L.

1903MNRAS..63..403.

Star's Name.	R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.		Epoch 1902.	Obs.
	h m	° ′	°	″					
β 1015 ...	0 16	78 14	117·7	0·41	1	8·4	8·6	·865	W.B.
			124·4	0·49	1	...		·923	L.
β 1093 ...	0 16	73 36	49·6	0·38	1	7·5	8·5	·884	L.
β 1225 ...	0 22	69 27	188·3	1·29	1	8·1	11·8	·923	L.
OΣ 12 ...	0 26	36 8	149·2	0·50	2	5·0	6·0	·431	B.
Σ 60 ...	0 43	32 43	225·9	5·44	1	4·0	7·6	·014	L.
			223·3	5·61	1	...		·079	B.
β 495 ...	0 43	71 52	223·3	0·54	3	8·0	8·2	·854	W.B.
OΣ 20 ...	0 49	71 22	317·0	0·42	1	5·9	7·0	·887	W.B.
Σ 73 ...	0 50	66 55	22·6	1·08	2	6·2	6·8	·827	W.B.
			21·0	1·10	1	...		·786	H.F.
β 1099 ...	0 51	30 11	320·8	0·19	1	6·1	6·5	·783	B.
β 302 ...	0 53	69 8	101·2	0·51	1	6·7	8·0	·887	W.B.
β 235 ...	1 5	39 31	96·1	0·83	2	7·2	7·3	·831	B.
Σ 113 ...	1 15	91 2	352·0	1·30	1	6·2	7·2	·953	H.F.
			356·4	1·25	1	...		·991	W.B.
β 507 ...	1 30	63 44	150·1	2·02	1	8·0	11·0	·167	L.
Σ 138 ...	1 31	82 52	38·5	1·46	1	7·3	7·3	·953	H.F.
β 1016 ...	1 44	57 25	211·5	0·89	1	8·5	8·5	·167	L.
Ho. 311 ...	1 46	65 50	189·8	0·30	1	7·5	7·7	·167	L.
			181·4	0·40	1	...		·887	W.B.
Σ 183 ...	1 49	61 41	162·0	5·31	1	7·5	8·2	·887	W.B.
OΣ 38 ...	1 58	48 10	116·8	0·44	2	5·0	6·2	·039	L.
			117·3	0·36	3	...		·118	B.
Ho. 497 ...	2 7	50 7	66·1	0·65	1	8·2	9·0	·167	L.
Σ 228 ...	2 8	42 59	90·6	0·52	1	6·7	7·6	·115	L.
			88·6	0·49	1	...		·119	B.
Σ 236 ...	2 11	38 0	259·1	1·11	1	8·5	9·3	·167	L.
OΣ 42 ...	2 27	38 8	141·8	0·14	2	7·0	7·5	·137	B.
			single					·167	L.
Σ 305 ...	2 42	71 2	315·7	3·02	3	7·3	8·2	·621	W.B.
			320·8	2·99	1	...		·786	H.F.
β 524 ...	2 47	52 5	208·4	0·24	2	5·5	6·5	·115	L.
			180·4	0·10	1	...		·079	B.
Σ 333 ...	2 53	69 4	206·8	1·13	1	5·7	6·0	·014	L.
			199·7	1·20	2	...		·529	W.B.
			205·5	1·36	1	...		·786	H.F.
β 525 ...	2 53	52 31	136·1	0·22	2	7·5	7·5	·091	L.
			130·6	0·22	2	...		·137	B.

1903MNRAS..63..403.

Star's Name.		R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.		Epoch 1902.	Obs.
		h m	° ′	°	″					
β 1173	...	2 53	66 16	342·7	0·30	1	7·7	7·8	·014	L.
Σ 346	...A.B.	3 0	65 8	268·6	0·54	1	6·0	6·0	·014	L.
	$\frac{\text{A.B.}}{2}$C.			358·7	5·37	1	...		·014	L.
β 1030	...	3 4	68 39	159·9	0·53	2	8·4	8·4	·102	L.
				157·7	0·56	2	...		·137	B.
OΣ 53	...	3 11	51 44	233·3	0·54	1	7·2	8·0	·110	W.B.
β 533	...	3 29	58 39	50·5	0·60	2	7·0	7·0	·137	B.
Σ 412	...	3 29	65 52	10·5	...	1	6·6	6·7	·014	L.
				359·4	0·27	2	...		·137	B.
Σ 425	...	3 33	56 10	90·4	2·63	2	7·3	7·3	·088	W.B.
				93·5	2·35	1	...		·953	H.F.
β 535	...	3 38	58 2	49·7	0·90	2	3·8	8·5	·137	B.
β 880	...	3 38	58 9	15·7	0·58	3	8·5	9·0	·147	L.
				358·1	0·52	1	...		·159	B.
β 536	...	3 40	66 6	292·3	0·15	1	8·3	8·9	·159	B.
β 1184	...	3 42	67 56	263·1	0·46	1	8·1	8·3	·110	W.B.
				270·7	0 48	1	...		·159	B.
OΣ 66	...	3 45	49 30	137·2	0·62	1	7·5	8·0	·159	B.
OΣ 531	...	4 1	52 12	131·4	2·00	1	8·5	10·2	·110	W.B.
OΣ 77	...	4 10	58 34	135·0	0·28	1	7·0	7·5	·159	B.
OΣ 80	...	4 17	47 46	178·0	0·45	1	6·5	7·0	·159	B.
Σ 535	...	4 18	78 51	324·4	1·49	2	6·7	8·2	·072	W.B.
OΣ 86	...	4 31	70 27	60·8	0·37	2	7·5	7·5	·554	W.B.
Σ 567	...	4 31	70 44	320·2	1·87	1	8·5	9·0	·035	L.
				321·5	1·77	2	...		·529	W.B.
Σ 572	...	4 32	63 18	201·2	3·86	1	6·5	6·5	·035	L.
				201·4	3·73	2	...		·529	W.B.
				201·4	3·57	1	...		·953	H.F.
β 883	...	4 46	79 6	69·6	0·33	1	7·5	7·5	·014	L.
				78·3	0·30	1	...		·192	B.
OΣ 98	...	5 2	81 39	169·6	0·74	1	5·5	7·0	·997	W.B.
β 555	B.C.	5 10	98 18	158·4	0·44	1	8·0	8·0	·006	L.
Σ 668	A.B.			199·7	10·06	1	1·0	8·0	·006	L.
β 886	...	5 16	56 17	248·5	0·83	2	8·8	9·8	·219	L.
β 887	A.B.	5 16	56 41	189·2	0·96	1	9·0	10·0	·271	L.
	A.C.			114·3	9·98	1	9·0	13·5	·271	L.
	A.D.			329·0	10·32	1	9·0	12·2	·271	L.
	A.E.			203·2	15·59	1	9·0	13·5	·271	L.

1903MNRAS..63..403.

Star's Name.		R.A. 1900. h m	N.P.D. 1900. ° ′	Position Angle. °	Distance. ″	No. of Nights.	Mags.		Epoch 1902.	Obs.
Dawes 5	...	5 19	92 29	77·9	0·86	1	3·5	5·5	·192	B.
Σ 719	A.B.	5 24	60 32	326·3	1·00	1	7·0	8·5	·020	L.
	A.C.			348·7	15·20	1	7·0	8·9	·020	L.
Σ 749	...	5 31	63 8	174·4	0·98	1	7·1	7·2	·271	B.
				169·0	0·81	2	...		·532	W.B.
β 1240	...	5 32	59 34	330·0	0·24	3	5·6	6·0	·188	B.
β 1007	...	5 36	73 31	254·2	0·24	2	6·0	6·2	·203	B.
OΣ 118	...	5 42	69 10	306·1	0·60	1	8·0	8·8	·997	W.B.
β 560	...	5 43	60 18	149·8	0·69	1	8·0	8·5	·233	L.
Σ 779	...	5 45	51 28	180·9	0·74	1	7·2	8·3	·266	L.
Aitken 56	...	6 7	60 56	56·5	1·18	1	8·1	11·8	·233	L.
β 895	A.B.	6 14	61 31	177·7	0·38	1	7·5	7·5	·271	L.
Σ 888	A.C.			249·9	3·04	1	7·5	9·5	·271	L.
Σ 899	...	6 17	72 22	17·8	2·24	1	7·0	8·0	·997	W.B.
Σ 932	...	6 29	75 10	325·6	2·07	1	8·2	8·3	·997	W.B.
Σ 948	...	6 37	30 28	118·7	1·57	1	5·2	6·1	·290	B.
Σ 963	...	6 44	30 26	76·7	0·44	1	5·9	7·1	·290	B.
OΣ 160	...	6 48	68 43	175·7	1·22	1	6·8	9·8	·997	W.B.
Σ 1037	...	7 7	62 35	303·3	0·87	1	7·0	7·1	·192	B.
				300·0	0·75	1	...		·216	L.
				297·2	0·79	2	...		·601	W.B.
β 1023	...	7 9	63 56	294·4	0·30	2	8·4	8·5	·141	B.
Σ 1110	...	7 28	57 53	225·2	5·42	1	2·7	3·7	·205	W.B.
				223·0	5·68	1	...		·266	L.
				225·2	5·63	1	...		·301	B.
OΣ 175	...	7 29	58 50	325·6	0·64	2	6·0	6·6	·208	B.
				325·3	0·48	1	...		·205	W.B.
				325·7	0·54	1	...		·266	L.
Σ 1126	...	7 35	84 32	144·0	1·12	1	7·0	7·0	·211	L.
Procyon	...	7 35	84 28	344·9	5·39	2	1	10	·214	L.
OΣ 177	...	7 35	52 19	116·1	0·58	1	7·5	8·5	·115	B.
				130·3	0·54	1	...		·359	L.
OΣ 182	...	7 47	86 22	35·3	0·88	1	7·0	7·5	·216	L.
OΣ 185	...	7 52	88 36	30·0	0·46	1	6·8	7·0	·216	L.
Σ 1175	...	7 57	85 34	225·5	1·78	1	7·8	9·7	·216	L.
β 581	A.B.	7 59	77 25	294·4	0·48	3	8·5	8·6	·198	L.
	A.C.			198·9	4·88	2	8·5	11·0	·192	L.
Σ 1186	...	8 3	62 13	227·2	3·50	1	7·1	10·4	·348	L.

1903MNRAS..63..403.

Star's Name.		R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.		Epoch 1902.	Obs.
		h m	° ′	°	″					
Σ 1187	...	8 3	57 28	44·5	1·88	1	7·1	8·0	·329	W.B.
Σ 1196	A.B.	8 6	72 3	357·5	1·20	2	5·0	5·7	·256	W.B.
				362·6	1·07	1	...		·301	B.
	A.C.			112·5	5·49	2	5·0	6·5	·256	W.B.
				112·2	5·19	1	...		·301	B.
	B.C.			126·0	5·86	2	5·7	6·5	·256	W.B.
				123·5	5·68	1	...		·301	B.
Σ 1273	A.C.	8 41	83 13	234·5	3·47	2	3·5	7·7	·214	L.
				232·3	3·34	1	...		·307	W.B.
Σ 1273...A.B.		8 41	83 13	357·5	—	1	3·8	6·0	·167	L.*
				36·7	—	1	...		·216	L.*
				25·9	—	1	...		·266	L.*
				28·7	—	1	...		·320	L.*
				280·0	0·10	1	...		·301	B.
Perrotin	...	8 46	81 17	343·7	0·70	1	7·5	9·5	·320	L.
Σ 3121	...	9 12	61 0	22·6	0·61	2	7·5	7·8	·256	W.B.
				21·6	0·76	3	...		·275	L.
Aitken 221	...	9 13	59 50	290·1	0·39	1	8·7	8·8	·359	L.
Ho. 43	...	9 13	68 47	310·9	0·55	1	8·0	8·5	·205	W.B.
				304·1	0·44	1	...		·320	L.
OΣ 201	...	9 18	61 39	223·4	1·35	1	7·5	9·0	·285	L.
				219·9	1·54	1	...		·348	H.F.
Σ 1356	...	9 23	80 27	111·9	0·68	1	6·2	7·0	·214	B.
OΣ 208	...	9 45	35 28	108·6	0·30	2	5·0	5·6	·345	B.
A.C. 5	...	9 48	97 38	76·1	0·33	1	5·5	5·7	·214	B.
B.D.	...	10 9	71 33	8·1	1·38	2	8·0	8·5	·315	L.
+18°·2335				6·0	1·44	1	...		·329	W.B.
OΣ 215	...	10 11	71 45	200·5	0·86	1	7·0	7·2	·214	B.
				207·0	0·64	2	...		·291	W.B.
				207·1	0·91	3	...		·297	L.
Σ 1424	...	10 14	69 39	114·8	3·62	2	2·0	3·5	·277	W.B.
				115·7	3·81	3	...		·293	L.
Σ 1426	...	10 15	83 4	179·4	0·79	1	7·8	8·3	·214	B.
OΣ 216	...	10 17	74 9	108·2	1·14	1	7·0	10·5	·309	L.
Σ 1429	...	10 20	64 53	254·6	0·92	2	8·3	8·3	·340	W.B.
OΣ 217	...	10 21	72 16	152·2	0·67	1	7·3	7·8	·214	B.
				157·5	0·69	1	...		·259	W.B.

* Σ 1273 A.B. See note at end of measures.

1903MNRAS..63..403.

Star's Name.	R.A. 1900.	N.P.D. 1900	Position Angle.	Distance.	No. of Nights.	Mags.	Epoch 1902.	Obs.
	h m	° ′	°	″				
Σ 1439 ...	10 25	68 41	115·5	1·68	1	8·0 8·5	·307	W.B.
β 1074 ...	10 30	43 41	203·3	—	1	6·4 11·2	·359	L.
Σ 1457 ...	10 34	83 45	313·3	1·41	1	7·4 8·4	·307	W.B.
OΣ 224 ...	10 34	80 38	304·5	0·37	1	7·2 9·2	·309	L.
OΣ 225 ...	10 35	70 14	250·9	0·69	1	7·5 11·2	·309	L.
OΣ 228 ...	10 42	66 54	184·0	0·57	1	7·2 8·1	·350	W.B.
OΣ 229 ...	10 42	48 21	322·3	0·78	1	6·7 7·1	·359	L.
Σ 1487 ...	10 50	64 43	107·3	6·47	1	5·0 7·0	·307	W.B.
Hough 47 ...	10 58	53 47	329·9	0·76	1	9 9	·359	L.
„ 378 ...	10 59	51 2	225·1	0·40	1	8·0 8·1	·359	L.
Σ 1517 ...	11 8	69 19	276·2	0·39	2	7·3 7·3	·371	W.B.
Σ 1523 ...	11 13	57 54	146·1	2·46	2	4·0 4·9	·258	B.
			144·0	2·27	1	...	·350	W.B.
Σ 1527 ...	11 14	75 11	16·5	3·38	1	6·9 8·1	·304	L.
Σ 1534 ...	11 17	71 15	330·6	5·33	1	8·0 11·2	·304	L.
Σ 1536 ...	11 19	78 55	56·3	2·42	2	3·9 7·1	·322	L.
			50·8	2·27	1	...	·397	H.F.
			51·9	2·21	1	...	·397	W.B.
Lalande 21846 ...	11 24	58 59	11·5	0·99	2	7 11	·354	L.
OΣ 234 ...	11 25	48 10	146·5	0·30	1	7·0 7·4	·350	W.B.
Σ 1555 ...	11 31	61 40	349·5	0·35	1	6·4 6·8	·214	B.
			352·4	0·48	2	...	·329	W.B.
			350·1	0·36	1	...	·345	L.
OΣ 237 ...	11 34	48 18	268·8	1·30	1	7·4 9·0	·350	W.B.
β 603 ...	11 44	75 10	320·3	0·84	1	6·4 10·2	·309	L.
Σ 1606 ...	12 6	49 33	327·4	1·12	1	6·3 7·0	·214	B.
			328·1	1·04	1	...	·350	W.B.
Σ 1639 ...	12 20	63 52	354·8	0·33	2	6·7 7·9	·315	L.
			357·5	0·31	1	...	·397	W.B.
Σ 1643 ...	12 22	62 25	39·3	2·15	2	8·4 8·7	·317	L.
			36·8	2·15	1	...	·307	W.B.
Σ 1647 ...	12 26	79 44	40·9	1·30	2	7·5 7·8	·350	L.
			38·1	1·30	1	...	·397	H.F.
Σ 1658 ...	12 30	82 0	359·0	2·38	1	8·0 9·8	·304	L.
Σ 1663 ...	12 32	68 15	104·3	0·74	2	7·8 8·7	·352	W.B.
			106·1	0·90	1	...	·397	H.F.
Σ 1670 ...	12 37	90 54	328·1	5·75	2	3·0 3·0	·404	W.B.

1903MNRAS..63..403.

Star's Name.	R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.	Epoch 1902.	Obs.
	h m	° ′	°	″				
Σ 1687 ...	12 48	68 13	84·8	1·03	1	5·0 7·8	·320	L.
			87·5	1·21	2	...	·373	H.F.
			87·1	1·18	2	...	·395	W.B.
β 112 ...	12 57	71 5	293·8	1·92	1	6·5 8·5	·320	L.
Σ 1711 ...	12 58	75 59	350·3	0·93	1	8·5 9·0	·320	L.
OΣ 260 ...	13 3	62 31	119·0	0·63	2	7·9 8·3	·307	L.
Σ 1728 ...	13 5	71 57	194·2	0·40	2	6·0 6·0	·252	B.
			193·4	0·43	2	...	·312	L.
			192·3	0·35	1	...	·392	W.B.
OΣ 261 ...	13 7	57 23	343·3	1·40	2	6·9 7·4	·427	W.B.
β 800 ...	13 12	72 27	111·9	2·84	2	7·1 10·2	·334	L.
			113·1	2·84	1	...	·348	H.F.
Lalande 24673	13 12	72 7	127·3	4·56	2	8·0 8·5	·334	L.
Σ 1734 ...	13 16	86 32	189·3	0·92	1	7·2 7·9	·304	L.
Σ 1742 ...	13 19	88 5	350·5	1·17	1	7·4 7·9	·304	L.
Hough 260 ...	13 19	60 15	328·7	0·58	1	8·3 9·5	·320	L.
OΣ 266 ...	13 23	73 47	343·6	1·53	1	7·3 7·8	·304	L.
			337·1	1·64	1	...	·416	W.B.
OΣ 269 ...	13 28	54 34	217·9	0·29	2	6·5 7·0	·449	W.B.
Σ 1768 ...	13 33	53 13	131·3	1·20	1	5·7 7·6	·290	B.
			127·4	1·38	2	...	·449	W.B.
β 612 ...	13 35	78 45	246·5	0·27	2	6·3 6·5	·335	L.
Σ 1785 ...	13 45	62 31	284·1	1·30	2	7·2 7·5	·390	W.B.
			285·0	1·16	2	...	·411	H.F.
β 1270 ...	13 59	81 2	Round	...	1	8·2 8·3	·309	L.
			Round	...	1	...	·321	L.
Σ 1808 ...	14 6	62 56	81·5	2·65	2	8·0 9·0	·407	W.B.
OΣ 278 ...	14 8	45 21	93·5	0·26	2	7·5 7·5	·487	B.
Σ 1819 ...	14 10	86 24	358·8	1·19	1	7·9 8·0	·424	H.F.
Σ 1834 ...	14 17	41 2	118·2	0·29	1	7·1 7·2	·728	B.
Σ 1835 ...	14 19	81 6	128·7	...	1	5·5 6·8	·419	L.*
Σ 1865 ...	14 36	75 51	151·5	0·54	1	3·5 3·9	·266	Big.†
			149·6	0·32	2	...	·343	L.
			150·9	0·33	4	...	·436	B.
Σ 1867 ...	14 36	58 17	14·6	1·28	3	7·7 8·2	·435	W.B.
Σ 1877 ...	14 41	62 30	328·6	2·38	1	3·0 6·3	·424	H.F.
			326·6	2·73	2	...	·452	W.B.

* Σ 1835. Distance not greater than 0″·15. † M. Bigourdan.

1903MNRAS..63..403.

Star's Name.	R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.	Epoch 1902.	Obs.
	h m	° ′	°	″				
Σ 1879 ...	14 41	79 55	132·7	0·46	1	7·8 8·8	·399	L.
			126·0	0·72	1	...	·460	W.B.
OΣ 285 ...	14 42	47 11	124·9	0·27	3	7·1 7·6	·567	B.
			124·6	0·28	1	...	·501	L.
Σ 1883 ...	14 44	83 37	250·0	0·46	1	7·0 7·0	·460	W.B.
			239·3	0·47	2	...	·509	B.
OΣ 287 ...	14 48	44 40	319·3	0·87	3	7·5 7·6	·567	B.
β 31 A.B. ...	14 48	70 51	199·2	1·54	1	8·4 9·7	·501	L.
A.C. ...			163·3	9·13	1	8·4 12·2	·501	L.
OΣ 288 ...	14 49	73 53	189·3	1·45	1	6·4 7·1	·424	H.F.
			191·1	1·58	3	...	·464	W.B.
			189·7	1·46	1	...	·501	L.
β 348 ...	14 56	89 45	114·4	0·42	1	6·0 6·8	·542	B.
Σ 1908 ...	15 1	55 7	141·5	1·39	2	8·2 9·2	·496	W.B.
Σ 1932 ...	15 14	62 48	152·6	0·80	2	5·6 6·1	·438	B.
			149·6	0·65	1	...	·460	W.B.
Σ 1937 ...	15 19	59 21	10·9	0·77	1	5·2 5·7	·320	L.
			9·9	0·78	2	...	·438	B.
			14·3	0·68	1	...	·460	W.B.
Σ 1938 ...	15 20	52 18	70·8	1·11	2	6·7 7·3	·487	B.
			73·7	1·06	2	...	·534	W.B.
Σ 1954 ...	15 30	79 7	185·8	3·53	2	3·0 4·0	·501	H.F.
			185·3	3·55	1	...	·424	L.
			181·1	3·59	1	...	·531	W.B.
Σ 1957 ...	15 31	76 44	153·3	1·23	2	7·9 9·6	·499	W.B.
OΣ 298 ...	15 32	49 52	184·5	1·23	1	7·0 7·3	·501	L.
			182·8	1·03	2	...	·613	B.
β 619 ...	15 38	76 1	1·4	0·42	1	6·5 7·0	·465	W.B.
			5·6	0·51	4	...	·479	B.
Σ 1967	15 38	63 23	120·1	0·58	2	4·0 7·0	·438	B.
			116·4	0·34	2	...	·463	W.B.
β 621	15 46	45 8	58·8	0·48	1	7·5 8·0	·728	B.
OΣ 303	15 56	76 27	145·6	0·89	2	7·4 7·9	·449	B.
			138·2	0·83	3	...	·473	W.B.
			141·6	0·72	1	...	·479	L.
Σ 2021	16 8	76 12	331·9	3·77	2	6·7 6·9	·412	W.B.
			337·4	3·45	1	...	·578	H.F.
β 951	16 19	56 23	46·9	0·84	1	8·2 8·7	·537	W.B.
			52·6	0·89	1	...	·638	L.

1903MNRAS..63..403.

Star's Name.	R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.	Epoch 1902.	Obs.
	h m	° ′	°	″				
Σ 2052	16 25	71 23	92·1	1·61	3	7·5 7·5	·482	W.B.
			93·5	1·63	1	...	·578	H.F.
Σ 2055	16 26	87 48	60·2	1·22	2	4·0 6·1	·447	L.
			56·5	1·48	1	...	·515	W.B.
			51·8	1·24	1	...	·578	H.F.
Σ 3105	16 26	96 49	32·2	0·49	3	7·7 7·7	·476	B.
Σ 2084	16 38	58 13	216·0	1·00	3	3·0 6·5	·481	L.
			215·0	0·97	5	...	·589	B.
			219·0	1·11	2	...	·596	W.B.
Σ 2091	16 39	48 37	305·0	1·16	1	7·5 8·0	·498	B.
			304·5	0·99	1	...	·633	L.
De. 15	16 41	46 20	308·1	0·57	2	8·2 8·6	·636	L.
OΣ 315 ...	16 46	88 37	152·1	0·71	1	6·2 8·1	·515	W.B.
Σ 2106	16 46	80 25	295·5	0·30	1	6·7 8·4	·512	L.
Σ 2107	16 48	61 10	339·4	0·27	3	6·5 8·0	·549	L.
			338·8	0·39	1	...	·537	W.B.
β 821	16 48	57 59	308·3	1·47	1	8·4 8·9	·633	L.
Σ 3107	16 54	85 53	98·2	1·35	2	8·5 8·5	·556	L.
			97·3	1·27	2	...	·607	H.F.
Hussey 160 ...	16 52	79 36	194·0	0·62	1	8·9 9·2	·512	L.
Σ 2114	16 57	81 24	164·1	1·37	2	6·2 7·4	·493	L.
			158·8	1·36	2	...	·518	W.B.
			164·9	1·29	1	...	·578	H.F.
Σ 2120	17 1	61 46	240·8	8·14	1	6·4 9·2	·474	L.
			242·2	8·07	1	...	·493	W.B.
			244·1	8·26	1	...	·635	H.F.
β 357	17 1	79 19	294·7	1·15	3	8·5 9·4	·503	L.
β 823	17 1	89 13	14·4	1·11	1	8·2 9·2	·512	L.
Σ 2130	17 3	35 24	143·5	2·22	2	5·0 5·1	·682	H.F.
β 1118	17 5	105 36	251·5	0·33	3	3·4 3·9	·473	B.
Σ 2140	17 10	75 30	113·1	4·74	2	3·0 6·1	·503	W.B.
			114·8	4·58	1	...	·523	L.
			112·0	4·65	2	...	·604	H.F.
Σ 3127	17 11	65 3	192·1	14·71	3	3·0 8·1	·545	L.
			191·1	14·44	2	...	·575	W.B.
Σ 2145	17 12	63 18	43·6	0·43	2	8·3 8·9	·571	L.
β 1200	17 12	75 12	8·7	1·40	1	7·8 12·2	·523	L.
β 1250	17 21	59 9	75·7	2·23	1	9·4 9·5	·638	L.

1903MNRAS..63..403.

Star's Name.	R.A. 1900. h	m	N.P.D. 1900. °	′	Position Angle. °	Distance. ″	No. of Nights.	Mags.		Epoch 1902.	Obs.
Σ 2173	17	25	90	59	328·2	0·91	3	5·8	6·1	·473	B.
OΣ 331 ...	17	27	87	7	333·4	1·09	1	7·5	9·0	·570	W.B.
β 631	17	35	90	36	58·7	0·30	3	7·5	7·6	·473	B.
β 1251	17	37	74	0	63·7	1·42	1	6·0	11·5	·501	L.
Σ 2205	17	40	72	14	307·2	1·98	1	8·3	8·7	·474	L.
					306·1	2·03	2	...		·538	W.B.
Σ 2214 A.B....	17	40	46	13	214·7	19·51	1	8·5	8·8	·685	H.F.
B.C.			...		146·7	1·30	1	8·8	10·3	·685	H.F.
Σ 2215	17	41	72	15	292·7	1·12	1	5·9	7·9	·474	L.
					289·5	0·80	2	...		·534	W.B.
A.C. 7	17	43	62	13	63·3	1·54	1	9·5	11·0	·671	L.
OΣ 337	17	46	82	44	96·9	0·27	3	7·5	8·0	·503	B.
OΣ 338.	17	47	74	39	14·0	0·81	3	6·5	7·0	·505	B.
					19·1	0·53	1	...		·537	W.B.
					15·3	0·67	1	...		·616	L.
*	17	48	74	28	292·7	2·18	1	9·0	9·5	·671	L.
Aitken 234 ...	17	49	64	23	32·0	0·54	2	8·8	9·1	·668	L.
„ 235 ...	17	49	64	59	61·0	0·26	2	7·9	8·1	·668	L.
A.C. 9	17	50	60	10	53·5	1·30	1	8·4	8·7	·537	W.B.
Σ 2272... ...	18	0	87	28	212·2	1·66	9	4·1	6·1	·551	W.B.
OΣ 534 ...	18	1	78	34	274·8	2 12	1	7·5	7·5	·706	B.
OΣ 341 ...	18	1	68	34	86·3	0·32	2	6·4	7·7	·624	B.
Σ 2283... ...	18	4	83	52	80·4	1·08	2	7·2	7·7	·575	W.B.
Σ 2281... ...	18	5	86	2	228·6	0·36	2	5·7	7·2	·575	W.B.
Σ 2289... ...	18	6	73	32	228·6	1·20	3	6·5	7·0	·511	W.B.
					223·0	1·31	1	...		·578	H.F.
Σ 2294... ...	18	9	89	5	106·5	0·25	1	7·4	7·7	·542	B.
					76·6	0·31	1	...		·654	W.B.
Hussey 197...	18	15	79	46	32·7	0·37	1	8·2	9·3	·652	W.B.
β 641	18	17	68	32	344·7	0·78	4	7·5	9·0	·651	L.
*	18	18	69	30	338·5	2·30	1	7·5	9·0	·665	L.
*	18	18	69	30	195·1	2·60	1	8·0	9·0	·665	L.
Σ 2315... ...	18	21	62	39	198·5	0·34	1	7·0	8·0	·665	L.
*	18	20	62	40	319·4	3·50	1	9·5	10·5	·665	L.
Σ 2318... ...	18	21	64	4	241·5	11·93	1	8·0	10·2	·731	L.
β 1203... ...	18	21	89	15	72·0	0·15	1	7·5	7·7	·542	B.
OΣ 354 ...	18	27	83	18	174·0	1·11	1	7·2	8·0	·685	H.F.
OΣ 357 ...	18	31	78	21	238·2	0·39	1	8·2	8·2	·590	W.B.

1903MNRAS..63..403.

Star's Name.		R.A. 1900.		N.P.D. 1900.		Position Angle.	Distance.	No. of Nights.	Mags.		Epoch 1902.	Obs.
		h	m	°	′	°	″					
OΣ 358	...	18	31	73	6	13·3	1·77	2	6·8	7·2	·523	W.B.
Hough 87	...	18	34	73	34	100·9	0·33	1	7·8	8·1	·652	W.B.
Σ 2356...	...	18	34	61	23	60·3	1·14	2	8·2	8·6	·584	W.B.
✶ ...	...	18	34	61	18	253·9	1·27	2	9·0	10·0	·584	W.B.
Ho. 437	...	18	37	58	27	117·7	0·33	1	8·3	8·5	·611	L.
Σ 2367...	...	18	37	59	48	78·2	0·22	1	7·2	7·6	·611	L.
Σ 2369...	...	18	39	87	29	91·4	1·06	1	8	8	·674	B.
Σ 2375...	...	18	41	84	36	114·0	1·77	4	6·2	6·6	·666	H.F.
Σ 2402...	...	18	45	79	25	205·9	1·23	1	8·0	8·4	·652	W.B.
						207·4	1·23	1	...		·679	H.F.
β 265 ...	...	18	46	78	36	230·2	1·25	1	7·7	9·3	·611	L.
Hussey 199...		18	47	78	19	6·2	0·41	1	8·7	9·1	·611	L.
Σ 2422...	...	18	53	64	2	96·9	0·95	3	7·6	7·7	·634	W.B.
β 648	...	18	53	57	16	217·3	1·00	1	6·0	9·2	·633	L.
Σ 2424	...	18	54	76	31	267·0	16·50	2	5·7	9·2	·681	H.F.
Σ 2437	...	18	58	70	58	63·0	0·91	2	7·8	8·0	·611	W.B.
Σ 2455	...	19	3	67	59	76·8	3·39	3	7·2	8·3	·695	H.F.
						76·1	3·25	2	...		·751	W.B.
Ho. 98	...	19	4	63	4	127·5	0·27	1	8	8	·687	L.
β 1204	...	19	7	87	33	2·3	0·31	1	7·7	8·5	·542	B.
Σ 2488	...	19	11	70	9	326·9	1·55	2	8·5	9·7	·662	W.B.
						331·5	1·29	1	...		·679	H.F.
OΣ 368	...	19	12	74	1	216·8	0·98	3	7·3	8·5	·622	W.B.
OΣ 371	...	19	12	62	42	151·9	0·82	3	6·8	7·0	·651	W.B.
						153·5	0·94	1	...		·679	H.F.
β 1256	...	19	14	83	51	36·8	0·68	3	8·3	8·3	·641	B.
β 141	...	19	18	67	42	84·8	0·66	2	7·5	8·5	·693	W.B
β 1129	...	19	19	37	50	339·7	0·30	1	6·3	6·3	·728	B.
Σ 2525	...	19	23	62	52	313·2	0·43	3	8·0	8·0	·611	W.B
						313·3	0·45	1	...		·665	L.
OΣ 375	...	19	30	72	7	146·6	0·57	3	7·2	8·4	·665	W.B.
Σ 2544	...	19	32	81	56	240·1	16·01	1	7·8	9·5	·742	L.
A.G.C. 11	...	19	45	71	7	156·5	0·16	2	4·5	6·0	·624	B.
Σ 2587	...	19	46	86	10	101·3	3·72	2	6·5	9·2	·682	H.F.
Σ 2590	...	19	47	79	55	308·6	13·42	1	7·1	10·0	·742	L.
Ho. 580	...	19	48	67	48	273·5	0·57	1	8·0	8·1	·652	W.B.
						268·7	0·68	1	...		783	B.
OΣ 532	...	19	50	83	50	12 3	12·13	1	3·4	11·3	·742	L.

1903MNRAS..63..403.

Star's Name.	R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.		Epoch 1902.	Obs.
	h m	° ′	°	″					
Σ 2600	19 51	67 46	55·3	2·88	3	8·3	9·7	·710	W.B.
β 425	19 53	69 59	241·1	1·52	3	8·4	8·5	·665	W.B.
A.C. 16	19 54	63 2	59·0	0·34	3	7·8	8·2	·661	W.B.
β 439	19 57	60 27	237·3	3·23	1	7·9	12·7	·671	L.
β 1258	19 57	60 22	156·8	1·45	1	8·0	10·8	·671	L.
∗ ...	19 57	60 22	303·7	2·77	1	8·5	9·0	·671	L.
OΣ 395	19 58	65 21	96·4	0·57	1	5·8	6·2	·570	W.B.
			99·6	0·61	1	...		·671	L.
			103·6	0·66	2	...		·701	B.
Σ 2616	19 58	75 42	265·7	3·53	2	6·8	9·7	·762	W.B.
Σ 2620	19 59	78 30	291·2	1·72	1	8·2	9·3	·789	W.B.
Σ 2624	20 0	54 15	174·7	1·93	1	7·2	7·8	·734	W.B
Σ 2695	20 28	64 32	81·0	1·09	2	6·2	8·0	·562	L.
			74·6	1·05	1	...		·734	W.B.
β 670	20 28	76 24	34·1	0·59	3	8·5	8·9	·596	L.
∗ ...	20 28	76 23	135·3	0·44	2	9·0	9·5	·561	L.
β 151	20 33	75 45	19·8	0·40	1	4	6	·677	L.
			20·1	0·40	4	...		·742	B.
			19·1	0·31	1	...		·734	W.B.
Ho. 137	20 37	60 33	288·5	1·03	1	7·0	10·0	·734	W.B.
∗ ...	20 37	60 33	338·6	6·86	1	8·0	10·5	·734	W.B.
Σ 2737 A.B.	20 54	86 5	278·5	0·76	2	5·7	6·2	·745	B.
A.C.			74·0	10·66	1	5·7	7·4	·722	H.F.
OΣ 424	20 55	74 49	318·1	0·48	1	7·5	8·7	·677	L.
OΣ 535	21 10	80 24	See end of list.						
Σ 2799	21 24	79 21	297·3	1·30	2	6·6	6·6	·800	H.F.
			298·7	1·57	2	...		·838	W.B.
Σ 2804	21 28	69 44	334·1	2·62	2	7·3	8·0	·800	H.F.
			332·2	2·77	2	...		·811	W.B.
β 1212	21 34	90 37	269·3	0·51	1	6·5	6·9	·706	B.
Hough 166	21 40	62 37	90·2	0·32	3	7·5	7·5	·825	L.
Σ 2822	21 40	61 42	123·4	2·34	2	4·0	5·0	·783	L.
			123·8	1·98	2	...		·800	H.F.
β 989	21 40	64 49	See end of list.						
Ho. 171	21 48	62 40	350·5	0·73	3	8·0	8·2	·760	L.
β 75 ...	21 51	79 35	41·3	1·12	1	8·1	8·3	·887	W.B.
Hough 179	22 8	60 17	260·2	0·42	1	8	9	·862	L.
			269·3	0·33	1	...		·887	W.B.

1903MNRAS..63..403.

Star's Name.	R.A. 1900.		N.P.D. 1900.		Position Angle.	Distance.	No. of Nights.	Mags.		Epoch 1902.	Obs.
	h	m	°	′	°	″					
Σ 2881 ...	22	10	60	55	99·4	1·39	2	7·7	8·2	·827	W.B.
Hough 180 ...	22	12	46	36	225·7	0·50	1	7·2	7·2	·715	L.
β 1216 ...	22	16	60	59	306·3	0·44	2	8·4	8·7	·876	W.B.
β 172 ...	22	19	95	21	0·8	0·55	1	5·6	6·0	·706	B.
Σ 2900 ...	22	19	67	39	177·8	1·37	2	6·0	9·2	·838	W.B.
β 291 ...	22	23	85	39	167·3	0·40	2	8·4	8·7	·789	L.
β 701 ...	22	23	78	12	261·4	1·03	1	7·5	10·2	·715	L.
β 1218 ...	22	23	60	49	56·2	1·45	1	8·6	8·8	·887	W.B.
β 1291 ...	22	25	32	48	122·0	3·49	1	9·1	10·5	·715	L.
Σ 2912 ...	22	25	86	5	290·1	0·36	1	5·8	7·2	·789	L.
β 705* ...	22	29	49	42	—	—	1	7·0	12·5	·715	L.
Hough 296 ...	22	36	75	59	82·7	0·29	2	5·5	5·5	·728	B.
					88·8	0·22	3	...		·828	L.
Σ 2934 ...	22	37	69	5	136·3	0·84	2	8·2	9·2	·838	W.B.
β 710 ...	22	38	60	48	235·9	0·45	2	8·5	8·6	·786	L.
β 1144 ...	22	39	60	18	95·1	0·36	1	10·1	10·1	·709	L.
β 711 ...	22	40	79	20	32·5	0·99	1	8·5	10·0	·709	L.
β 1146 ...	22	44	53	26	295·6	—	1	7·2	8·2	·917	L.
OΣ 536 ...	22	53	81	10	331·5	0·25	1	7·0	7·5	·805	B.
					344·5	0·31	2	...		·873	L.
Σ 2958 ...	22	52	78	41	11·3	4·66	1	7·2	9·5	·961	L.
OΣ 483 ...	22	54	78	48	224·7	1·06	3	6·2	7·7	·902	L.
β 1147 ...	22	58	47	47	325·2	—	1	5·5	8·7	·917	L.
β 1025 A.B....	23	2	77	52	277·5	0·80	2	8·0	10·3	·923	L.
A.C....					86·4	22·58	1	8·0	12·0	·884	L.
Σ 2995 ...	23	11	92	8	211·5	4·85	1	7·7	8·0	·922	L.
β 79... ...	23	12	92	4	87·0	0·97	1	8·0	8·6	·922	L.
β 80 A.B. ...	23	14	85	8	9·3	0·45	1	8·2	9·1	·917	L.
					39·3	0·29	1	...		·750	B.
β 80 A.C. ...					4·7	103·95	1	8·2	10·5	·917	L.
C.E. ...					135·4	21·36	1	8·2	14·0	·917	L.
β 719 ...	23	19	76	4	5·2	1·27	1	7·2	11·0	·906	L.
β 1266 A.B....	23	25	59	44	11·1	0·20	4	7·4	7·4	·833	L.
					21·2	0·15	1	...		·783	B.
Σ 3018 A.C....					203·8	19·03	1	7·4	9·0	·799	L.
β 720 ...	23	29	59	14	348·2	0·39	3	6·0	6·5	·809	L.
					344·3	0·37	1	...		·783	B.

* See end of measures.

1903MNRAS..63..403.

Star's Name.	R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Mags.		Epoch 1902.	Obs.
	h m	° ′	°	″					
β 858 A.B. ...	23 36	58 0	262·6	0·65	2	7·7	8·2	·858	L.
β 389 A.C. ...			52·9	22·83	2	7·7	10·8	·858	L.
Σ 3050 ...	23 54	56 50	218·4	2·18	1	6·0	6·0	·794	H.F.
β 281 ...	23 57	88 25	197·6	1·39	1	7·5	9·2	·922	L.
β 733 ...	23 57	63 26	249·7	0·75	1	6·0	11·0	·906	L.
Σ 3056 ...	23 59	56 17	149·0	0·45	2	7·4	7·4	·767	B.

Capella.

Observer ... ... Mr. Lewis.

Date. 1902.			Hour Angle.	Day from Beginning of the Year.	Position Angle.	Remarks.
	d	h			°	
Jan.	24	4½	4½E.	23·1	(272)	Power 670. The nucleus is very distinct and elongated along the line in which the instrument is vibrating. The star has just the same appearance as when first seen in 1900 April. When clouds passed, the rings and glare became elliptical along this line, so that I should put the elongation down to the clock.
		4½	4½E.		(268)	
		4¾	4¼E.		(254)	
Mar.	3	11	3½W	63·5	26° 36′	Power 670 and 1120. Splendid definition. Large number of rings; star certainly elongated at 206° or 26°. The diameter of the star was measured first in the direction of apparent elongation and then at right angles to this direction. The difference gave 0″·12, corresponding to a separation of the centres of two stars, considered equal, of 0″·060.
Apr.	8	8¼	4 W	97·3	...	Powers 670 and 1120 Star well defined. Large number of rings. Quite round.
	10	8½	4 W	99·3	...	Powers 670 and 1120. Definition fair, image steady, and a large number of rings. No sign of elongation.
Dec.	4	9	3 E.	336·3	...	Definition bad. No nucleus.

Observer ... ... Mr. Bryant.

Date. 1902.			Hour Angle.	Day from Beginning of the Year.	Position Angle.	Remarks.
	d	h			° ′	
Jan.	24	4	5 E.	23·2	112 19	Power 670. Windy. Definition good at times. Apparently second quadrant.

1903MNRAS..63..403.

Date. 1902.			Hour Angle.	Day from Beginning of the Year.	Position Angle.		Remarks.
	d	h			°	′	
Jan.	30	4	4¼E.	29·2	91	34	Power 670. Windy. Definition fair at intervals. Two blue shades and one green one.
Feb.	12	5	2¾E	42·2	49	20	Power 670. Two blue shades. Star very small. Definition good (more than six complete diffraction rings). Elongation very slight. Apparently in first quadrant.
Mar.	12	8½	2½W.	70·4	338	43	Power 670. Two blue shades. Star very bright, many rings visible. Disc at times well defined and small. Elongation estimated between 0″·05 and 0″·07. Bright field.
Apr.	9	7½	3½W.	98·3	239	32	Power 670. Definition poor, some measures through cloud, others with two blue shades.
	17	7½	4 W.	106·3	211	21	Power 670. Bright sky. Two blue shades. Star very small and almost round.

Observer ... ... Mr. Bowyer.

	d	h			°	′	
Jan.	13	7	2¾E.	12·3	...		Power 670. May possibly be elongated at 240°, but very doubtful. Definition fair.
Mar.	17	10½	5 W.	75·4	298	38	Power 670. Definition good, several rings visible. Blue shade used. Elongation apparently in second quadrant

Schiaparelli (Σ 1273 A.B., ε *Hydræ*).

Observer ... ... Mr. Lewis.

Date.	Position Angle.	Dist.	
	°	″	
1902·167	357·5	< ·2	Definition rapidly getting bad, and sky covered with thin cloud; but it is believed that the angle is fairly good. Power "670."
·216	36·7	< 1	Definition fair. Power 670.
·266	25·9	·18	Definition good. Estimated distance not greater than 0″·2.
·320	28·7	< ·1	The dot of light measured was only visible occasionally, but I think it was the companion: it appeared slightly reddish, and right on the limb of the large star. The distance would not exceed 0″·1. Power 670.

1903MNRAS..63..403.

Observer ... ... Mr. Bryant.

Date.	Position Angle.	Dist.	
1902·301	280°·0	0″·10	Power 670. Bright sky. Elongation slight and very doubtful.

δ *Equulei* (OΣ 535).

Observer ... ... Mr. Lewis.

1902·611	...	...	κ Pegasi (0″·13) measured fairly easily, about the same time, and judging from this δ *Equulei* must be nearly, if not quite, round.
·709	...	...	If elongated the distance cannot be anything like 0″·1. When seen at best definition it appeared round.
·715	...	...	Cannot detect any elongation. Definition not so good as on last occasion (·709).
·794	21·2	0·20	Elongation undoubted and estimated between 0″·1 and 0″·2.
·867	28·7	0·18	Elongation was marked and quite 0″·15. I suspect the companion in the first quadrant to be paler than the other.
·917	29·0	0·22	Definition good.

Observer ... ... Mr. Bryant.

1902·476	19·4	0·13	Bright field. Elongation very slight.
·542	27·2	0·18	Bright field. Not separated.
·706	28·8	0·21	Bright field. Elongated.
·783	28·7	0·22	Elongation slight.
·805	28·6	0·21	Elongated.

κ *Pegasi.*

Observer ... ... Mr. Lewis.

1902·611	180·4	0·13	Definition fair.
·709	167·3	0·1	Distance estimated.
·715	180·5	0·17	Difficult; measure of distance too large.
·805	...	...	Cannot measure, although δ *Equulei* was measured by Mr. Bryant.
·857	...	...	Cannot measure.
·862	147·9	0·14	More difficult than δ *Equulei*.
·917	145·4	0·15	” ”

1903MNRAS..63..403.

Observer ... ... Mr. Bryant.

Date.	Position Angle.	Dist.	
	°	″	
1902·542	180·4	0·11	Bright field.
·706	153·8	0·16	Observation not good.
·783	157·8	0·12	Bright field.

β 705.

This star was discovered by Mr. Burnham with the 18½-inch Dearborn refractor; the magnitudes are 7·0 and 12·5. The observations:—

1878·53	158·0	1·5 ±	Burnham.
1885·64	...	...	Hermann Struve. Single.
1898·	...	...	Burnham. Single.
1902·72	74·0	0·72	Lewis. No companion could be seen in position given for 1878; but a minute companion was suspected in the position now given.

Note on the Double Star 31 *Leonis.* By S. W. Burnham.

The Anderson companion to 31 *Leonis* has not been measured until recently in the last twenty-five years, and as the bright star has a considerable proper motion there would be a very decided change in the position of the $13^{m}\cdot5$ attendant if it was only an optical pair. It was therefore placed on my working list for measurement. The following are all the observations of this pair:

	°	″	
1878·24	44·2	7·63	2*n* β
1878·30	43·3	7·94	5*n* Hl
1903·19	41·9	7·64	3*n* β

It is evident that there has been no sensible change, and that the faint star has the same proper motion as the other. This is given by Auwers as 0″·127 in the direction of 252°·6. If the companion was fixed in space the distance in this interval would have increased nearly two and one-half seconds, so there can be no doubt as to this being a physical system.

In making these measures I noticed that one of the DM